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4-27-01.

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/826,212

DATE: 04/19/2001

TIME: 12:21:58

Input Set : A:\seq list 1488 1280006.txt  
 Output Set: N:\CRF3\04192001\I826212.raw

5 <110> APPLICANT: Wei, Ying-Fei  
 7 Gentz, Reiner  
 9 Ruben, Steven  
 11 Ni, Jian  
 14 <120> TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5  
 18 <130> FILE REFERENCE: 1488.1280006  
 C--> 22 <140> CURRENT APPLICATION NUMBER: US/09/826,212  
 C--> 22 <141> CURRENT FILING DATE: 2001-04-05  
 22 <160> NUMBER OF SEQ ID NOS: 26  
 26 <170> SOFTWARE: PatentIn version 3.0  
 30 <210> SEQ ID NO: 1  
 32 <211> LENGTH: 1392  
 34 <212> TYPE: DNA  
 36 <213> ORGANISM: Homo sapiens  
 40 <220> FEATURE:  
 42 <221> NAME/KEY: CDS  
 44 <222> LOCATION: (183)..(959)  
 48 <220> FEATURE:  
 50 <221> NAME/KEY: mat\_peptide  
 52 <222> LOCATION: (261)..()  
 56 <220> FEATURE:  
 58 <221> NAME/KEY: sig\_peptide  
 60 <222> LOCATION: (183)..(260)  
 64 <400> SEQUENCE: 1

65	cctctccacg	cgcacaaact	cagccaaacga	tttctgatag	atttttggga	gtttgaccag	60
66	agatgcaagg	ggtaaggag	cgttcctac	cgttagggaa	ctctggggac	agagcgc(ccc)	120
67	ggccgcctga	tggccgaggc	agggtgcgac	ccaggaccca	ggacggcg(c)	ggaaaccata	180
68	cc atg gcc	cgg atc ccc	aag acc cta aag	ttc gtc gtc	gtc atc gtc	Met Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile Val	227
69	72	-25	-20	-15			
70	gct gtc ctg	ctg cca gtc	cta gct tac tct	gcc acc act	gcc cg	cag	75
71	Ala Val Leu	Leu Pro Val	Leu Ala Tyr Ser	Ala Thr Thr	Ala Arg	Gln	275
72	-10	-5	-1	1	5		
73	gag gaa gtt	ccc cag cag	aca gtg	gcc cca cag	caa cag	agg cac agc	323
74	Glu Glu Val	Pro Gln Gln	Thr Val Ala Pro	Gln Gln Gln	Gln Arg	His Ser	
75	10	15	20				
76	ttc aag ggg	gag gag tgt	cca gca gga	tct cat aga	tca gaa	cat act	371
77	Phe Lys Gly	Glu Glu Cys	Pro Ala Gly	Ser His Arg	Ser Glu	His Thr	
78	25	30	35				
79	gga gcc tgt	aac ccg tgc	aca gag ggt	gtg gat tac	acc aac	gct tcc	419
80	Gly Ala Cys	Asn Pro Cys	Thr Glu Gly	Val Asp Tyr	Thr Asn	Ala Ser	
81	40	45	50				
82	aac aat gaa	cct tct tgc	ttc cca tgt	aca gtt tgt	aaa tca	gat caa	467
83	Asn Asn Glu	Pro Ser Cys	Phe Pro Cys	Thr Val Cys	Lys Ser Asp	Gln	
84	55	60	65				
85	aaa cat aaa	agt tcc tgc	acc atg acc	aga gac aca	gtg tgt	cag tgt	515
86	Lys His Lys	Ser Ser Cys	Thr Met Thr	Arg Asp Thr	Val Cys	Gln Cys	

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Input Set : A:\seq list 1488 1280006.txt  
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97	70	75	80	85	
99	aaa gaa ggc acc ttc cgg aat gaa aac tcc cca gag atg tgc cg	g aag			563
100	Lys Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro Glu Met Cys Arg Lys				
101	90	95	100		
103	tgt agc agg tgc cct agt ggg gaa gtc caa gtc agt aat tgt acg tcc				611
104	Cys Ser Arg Cys Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser				
105	105	110	115		
107	tgg gat gat atc cag tgt gtt gaa gaa ttt ggt gcc aat gcc act gtg				659
108	Trp Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala Thr Val				
109	120	125	130		
111	gaa acc cca gct gct gaa gag aca atg aac acc agc ccg ggg act cct				707
112	Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr Pro				
113	135	140	145		
115	gcc cca gct gct gaa gag aca atg aac acc agc cca ggg act cct gcc				755
116	Ala Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala				
117	150	155	160	165	
119	cca gct gct gaa gag aca atg acc acc agc ccg ggg act cct gcc cca				803
120	Pro Ala Ala Glu Glu Thr Met Thr Ser Pro Gly Thr Pro Ala Pro				
121	170	175	180		
123	gct gct gaa gag aca atg acc acc agc ccg ggg act cct gcc cca gct				851
124	Ala Ala Glu Glu Thr Met Thr Ser Pro Gly Thr Pro Ala Pro Ala				
125	185	190	195		
127	gct gaa gag aca atg acc acc agc ccg ggg act cct gcc tct tct cat				899
128	Ala Glu Glu Thr Met Thr Ser Pro Gly Thr Pro Ala Ser Ser His				
129	200	205	210		
131	tac ctc tca tgc acc atc gta ggg atc ata gtt cta att gtg ctt ctg				947
132	Tyr Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile Val Leu Leu				
133	215	220	225		
135	att gtg ttt gtt tgaaagactt cactgtggaa gaaattcctt ccttacctga				999
136	Ile Val Phe Val				
137	230				
139	aaggttcagg taggcgctgg ctgaggcg ggccgcgtgg acactctctg ccctgcctcc				1059
141	ctctgctgtg ttccccacaga cagaaacgcc tcggccctgcc ccaagtccgt gtgtctccag				1119
143	cctggctcta tcttccttcttgtatcgcc ccatccccac atcccggtca ccccccagga				1179
145	ccctggcttc atcagtcctt ctcctggagc tgggggtcca cacatctccc agccaagtcc				1239
147	aagaggcagg gccagttcct cccatcttca ggcgcggcca ggcaggggc agtcggctcc				1299
149	tcaactgggt gacaagggtg aggatgagaa gtggcacgg gatttatca gccttggtca				1359
151	gagcagaaca cagagatcc ccgtaaaaaaa aaa				1392
154	<210> SEQ ID NO: 2				
156	<211> LENGTH: 259				
158	<212> TYPE: PRT				
160	<213> ORGANISM: Homo sapiens				
164	<400> SEQUENCE: 2				
166	Met Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile Val Ala				
167	-25	-20	-15		
170	Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln Glu				
171	-10	-5	-1 1	5	
174	Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln Arg His Ser Phe				
175	10	15	20		

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/826,212

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Input Set : A:\seq list 1488 1280006.txt  
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178 Lys Gly Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu His Thr Gly  
 179 25 30 35  
 182 Ala Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn  
 183 40 45 50  
 186 Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln Lys  
 187 55 60 65 70  
 190 His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln Cys Lys  
 191 75 80 85  
 194 Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro Glu Met Cys Arg Lys Cys  
 195 90 95 100  
 198 Ser Arg Cys Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser Trp  
 199 105 110 115  
 202 Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala Thr Val Glu  
 203 120 125 130  
 206 Thr Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala  
 207 135 140 145 150  
 210 Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro  
 211 155 160 165  
 214 Ala Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala  
 215 170 175 180  
 218 Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala  
 219 185 190 195  
 222 Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His Tyr  
 223 200 205 210  
 226 Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile Val Leu Leu Ile  
 227 215 220 225 230  
 230 Val Phe Val  
 234 <210> SEQ ID NO: 3  
 236 <211> LENGTH: 455  
 238 <212> TYPE: PRT  
 240 <213> ORGANISM: Homo sapiens  
 244 <400> SEQUENCE: 3  
 246 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Pro Leu Val Leu Leu  
 247 1 5 10 15  
 249 Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro  
 250 20 25 30  
 252 His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys  
 253 35 40 45  
 255 Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys  
 256 50 55 60  
 258 Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp  
 259 65 70 75 80  
 261 Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu  
 262 85 90 95  
 264 Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val  
 265 100 105 110  
 267 Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg  
 268 115 120 125  
 270 Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe

RAW SEQUENCE LISTING  
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Input Set : A:\seq list 1488 1280006.txt  
Output Set: N:\CRF3\04192001\I826212.raw

271	130	135	140
273	Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu		
274	145	150	155
276	Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu		160
277	165	170	175
279	Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr		
280	180	185	190
282	Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser		
283	195	200	205
285	Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu		
286	210	215	220
288	Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys		
289	225	230	235
291	Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu		240
292	245	250	255
294	Gly Glu Leu Glu Gly Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser		
295	260	265	270
297	Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val		
298	275	280	285
300	Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys		
301	290	295	300
303	Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly		
304	305	310	315
306	Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn		320
307	325	330	335
309	Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp		
310	340	345	350
312	Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro		
313	355	360	365
315	Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu		
316	370	375	380
318	Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln		
319	385	390	395
321	Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala		400
322	405	410	415
324	Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly		
325	420	425	430
327	Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro		
328	435	440	445
330	Pro Ala Pro Ser Leu Leu Arg		
331	450	455	
333	<210> SEQ ID NO: 4		
335	<211> LENGTH: 461		
337	<212> TYPE: PRT		
339	<213> ORGANISM: Homo sapiens		
343	<400> SEQUENCE: 4		
345	Met Ala Pro Val Ala Val Trp Ala Ala Leu Ala Val Gly Leu Glu Leu		
346	1	5	10
348	Trp Ala Ala Ala His Ala Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr		15

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Input Set : A:\seq list 1488 1280006.txt  
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349	20	25	30	
351	Ala Pro Glu Pro Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln			
352	35	40	45	
354	Thr Ala Gln Met Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys			
355	50	55	60	
357	Val Phe Cys Thr Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp			
358	65	70	75	80
360	Ser Thr Tyr Thr Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys			
361	85	90	95	
363	Gly Ser Arg Cys Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg			
364	100	105	110	
366	Glu Gln Asn Arg Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu			
367	115	120	125	
369	Ser Lys Gln Glu Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg			
370	130	135	140	
372	Pro Gly Phe Gly Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val			
373	145	150	155	160
375	Cys Lys Pro Cys Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr			
376	165	170	175	
378	Asp Ile Cys Arg Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly			
379	180	185	190	
381	Asn Ala Ser Arg Asp Ala Val Cys Thr Ser Thr Ser Pro Thr Arg Ser			
382	195	200	205	
384	Met Ala Pro Gly Ala Val His Leu Pro Gln Pro Val Ser Thr Arg Ser			
385	210	215	220	
387	Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser			
388	225	230	235	240
390	Phe Leu Leu Pro Met Gly Pro Ser Pro Ala Glu Gly Ser Thr Gly			
391	245	250	255	
393	Asp Phe Ala Leu Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly			
394	260	265	270	
396	Leu Leu Ile Ile Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys			
397	275	280	285	
399	Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro			
400	290	295	300	
402	Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu			
403	305	310	315	320
405	Ile Thr Ala Pro Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser			
406	325	330	335	
408	Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly			
409	340	345	350	
411	Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser			
412	355	360	365	
414	Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile			
415	370	375	380	
417	Val Asn Val Cys Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln			
418	385	390	395	400
420	Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro			
421	405	410	415	

**Please Note:**

Use of n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/826,212

DATE: 04/19/2001  
TIME: 12:21:59

Input Set : A:\seq list 1488 1280006.txt  
Output Set: N:\CRF3\04192001\I826212.raw

L:22 M:270 C: Current Application Number differs, Replaced Current Application No  
L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:1581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:1725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:1849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18